

submitted that claims 7 and 12 conform to 35 USC 112, 2nd paragraph.

With regard to the cited references, it is noted that first of all, Settsu et al relates to using a mini operating system module for initialization the mini kernel module and the boot device driver module. The mini operating system module generates and starts the execution of an application execution and operating system loading the processing module. After this, the application execution and operating system loading processing module loads the application module from the file system into the memory and further loads some functional modules required for the application module in the memory [column 3, line 60, to column 4, line 2].

Settsu et al relates to loading the modules directly from the beginning to the end, and there is no mention anywhere that the loading could be stopped, for example, when some expansion card is attached to the device. However, in claim 1 of the present application, it is said that "...the second phase is conducted when the expansion card [1] is coupled to the electronic device [3]".

Moreover, Settsu et al does not directly mention the user interface module [cf. Claim 1 of the present application].

Garney relates to a computer system which comprises a processor, a system memory and an interface for receiving removable system features, such as feature cards [abstract]. Moreover, the expansion card is not directly mentioned in Garney. Only feature cards are disclosed

[abstract], and they are not expansion cards. However, the present invention relates to expansion cards [claim 1].

Secondly, Settsu et al does not enable the attachment of an expansion card during the loading of the modules [column 3, line 48, to column 4, line 33]. The application is predetermined before the operational modules are loaded and the application could be started automatically after all the necessary modules have been loaded [column 3, line 48, to column 4, line 33]. Moreover, Settsu et al does not relate to expansion cards at all. Also the user interface itself is not disclosed in Settsu et al.

Garney discloses feature cards and not expansion cards [abstract]. This document does not related to the loading of user interface software of an expansion card in at least two phases, or that the second phase is conducted when the expansion card is coupled to the electronic device [abstract of Garney, lines 7 to 19] [cf. Claim 1 of the present application]. The two phases in Garney are carried out when the feature card is already inserted in the computer system [abstract of Garney, lines 7 to 19].

The present invention relates to the loading of the user interface software in at least two phases, in which the second phase is conducted when the expansion card is coupled to the electronic device [all independent claims 1, 7 and 14].

The main advantage of the present invention compared to the two references [Settsu et al and Garney] is that the

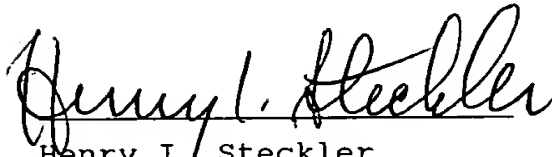
loading of the user interface software is faster, since it is not necessary to load all the user interface software at once. This is because the user interface software is loaded in at least two phases, and the second phase is conducted when the expansion card is attached to the electronic device. Moreover, the system is substantially independent of the operating system. Also, by the invention, it is easy to implement different language versions and to notify the user about possible error situations, because the operating system does not have to stop to wait for an acknowledgement of the error [page 6, lines 1 to 16].

Further, the Examiner has combined the Settsu and Garney references. This combination would not be obvious for a person skilled in the art, because Settsu et al does not relate to expansion cards and because Garney does not relate to loading the user interface software in at least two phases, the second phase to be conducted when the expansion card is coupled to the electronic device. Moreover, Garney does not directly mention expansion cards.

For all of the foregoing reasons, it is respectfully submitted that all of the claims now present in the application are clearly novel and patentable over the prior art of record, and are in proper form for allowance. Accordingly, favorable reconsideration and allowance is respectfully requested. Should any unresolved issues remain, the Examiner is invited to call Applicants' attorney at the telephone number indicated below.

The Commissioner is hereby authorized to charge payment for any fees associated with this communication or credit any over payment to Deposit Account No. 16-1350.

Respectfully submitted,


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Marked Up Claims:

1. (Amended) A method for loading the user interface software [(202, 203)] of an expansion card in an electronic device [(3)] comprising means [(16, 17)] for loading, starting and executing program modules in the electronic device [(3)], which expansion card [(1)] can be coupled in a releasable manner to the electronic device [(3)], [(characterized in that] wherein the user interface software [(202, 203)] is divided in at least into a basic module [(202)] and a user interface module [(203)], [that] and the loading of the user interface software [(202, 023)] is executed in at least two phases, wherein in the first phase the loading and start-up of the basic module [(202)] is conducted, and in the second phase the loading and start-up of the user interface module is conducted, and [that] the second phase is conducted when the expansion card [(1)] is coupled to the electronic device [(3)].

2. (Amended) The method according to claim 1 wherein [characterized in that] said basic module [(202)] of the user interface software controls the execution of the second phase.

3. (Amended) The method according to claim 2, wherein [characterized in that] in the electronic device [(3)] an application programming interface [(204)] and a device driver [(205)] are executed in order to arrange communication between the user interface software [(202, 203)] and the expansion card, wherein when the expansion card [(1)] is coupled to the electronic device [(3)], information on the coupling of the expansion card [(1)] is transmitted from the device driver [(205)] to the application programming interface [(204)] from which the information is transmitted to the basic module [(202)], and wherein the loading and start-up of the user interface module is initiated from the basic module.

4. (Amended) The method according to claim 3, wherein [characterized in that] in the electronic device [(3)] an operating system [(201)] is executed to control the function of the electronic device, [that)] and in the coupling of the expansion card [(1)] an interrupt signal is produced, wherein in the operating system the possible cause for the interrupt signal is examined and information on the coupling of the expansion card is transmitted to the device driver [(205)].

5. (twice amended) Method according to claim 1, wherein [characterized in that] when the expansion card [(1)] is detached from the electronic device [(3)], the user interface module [(203)] is halted and the basic module [(202)] is kept in operation.

6. (Amended) The method according to claim 5, wherein [characterized in that] when the user interface module [(203)] is being loaded, an area in the memory [(17)] is allocated for the user interface module, and [that] when the expansion card [(1)] is detached from the electronic device [(3)], the area allocated in the memory [(17)] for the user interface module [(203)] is deallocated.

7. (Amended) An electronic device [(1)] comprising means [(16, 17)] for loading user interface software [(202, 203)] in an electronic device [(3)], means [(2a, 20)] for coupling (the expansion card in a releasable manner in the electronic device [(3)] and means [(16, 17)] for loading, starting and executing program modules in the electronic device [(3)] wherein [characterized in that] the user interface software [(203, 203)] is divided at least into a basic module [(202)] and a user interface module [(203)], [that] and the means [(16, 17)] for loading the user interface software [(202, 203)], and [that] the

loading of the user interface module [(203)] is arranged to be executed when the expansion card [(1)] is coupled to the electronic device [(3)].

8. (Amended) The electronic device [(3)] according to claim 7, wherein [characterized in that] said basic module [(202)] of the user interface software comprises means for controlling the execution of the second phase.

9. (Amended) The electronic device according to claim 8, wherein [characterized in that] the electronic device [(3)] comprises means for executing the device driver [(205)] to arrange communication between the user interface software [(202, 203)] and the expansion card, means for recognizing the coupling of the expansion card [(1)] to the electronic device [(3)] and means for transmitting [(213)] the information on the coupling of the expansion card [(1)] from the device driver [(205)] to the basic module [(202)], and wherein the basic module comprises means for loading and starting the user interface module [(203)].

10. (Amended) The electronic device [(3)] according to claim 9, wherein [characterized in that] the electronic device [(3)] comprises means for executing an application

programming interface [(204)], and said means for transmitting [(213)] information on the coupling comprise an application programming interface [(204)].

11. (Amended) The electronic device [(3)] according to claim 10, wherein [characterized in that] the electronic device [(3)] comprises means for executing an operating system to control the function of the electronic device, means for producing an interrupt signal on the coupling of the expansion card [(1)] to the electronic device [(3)], and wherein the operating system comprises means for examining the cause of said interrupt signal and means for transmitting information on the coupling to the device driver [(205)].

12. (twice amended) The electronic device [(3)] according to claim 7, wherein [characterized in that] the expansion card [(1)] comprises a transmitter/receiver unit [(15)] and a high frequency power amplifier [9 of the wireless communication device].

13. (twice amended) The electronic device [(3)] according to claim 7, wherein [characterized in that] it is a data processor.

14. (Amended) A storing means for loading the user interface software [(202, 203)] of an expansion card in an electronic device [(3)] comprising means [(16, 17)] for loading, starting and executing program modules in the electronic device [(3)], which expansion card [(1)] can be coupled in a resealable manner to the electronic device [(3)], [characterized in that] wherein the user interface software [(203, 203)] is divided at least into a basic module [(202)] and a user interface module [(203)], and that the loading program comprises procedures for loading the user interface software [(202, 203)] in at least two phases, wherein in the first phase the loading and start-up of the user interface module is arranged to be conducted, and the second phase is conducted when the expansion card [(1)] is coupled to the electronic device [(3)].